		Applicatio	Application No.		Applicant(s)	
Office Action Summary		10/585,20	4	KOINUMA ET AL.		
		Examiner		Art Unit		
		Sanza L. M	IcClendon	1796		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on <u>27 May 2009</u> .					
•	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
′=	/ <del></del>					
-/-	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	·		.,,,			
Dispositi	on of Claims					
4)🖂	☑ Claim(s) <u>1-13</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)🖂	6)⊠ Claim(s) <u>1-13</u> is/are rejected.					
7)						
′ <b>=</b>						
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>7/03/2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The bath of declaration is objected to by the Examiner. Note the attached office Action of form F10-102.						
Priority ι	ınder 35 U.S.C. § 119					
. —	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* 5	* See the attached detailed Office action for a list of the certified copies not received.					
Attachmen	t(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			Paper No(s)/Mail Da	ite. <u>9/03/09</u> .		
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:						
rape	Paper No(s)/Mail Date 6)					

Application/Control Number: 10/585,204 Page 2

Art Unit: 1796

### **DETAILED ACTION**

## Response to Amendment

1. In response to the Amendment received on May 27, 2009, the examiner has carefully considered the amendments. The examiner acknowledges the addition of claims 7-13.

#### Response to Arguments

2. Applicant's arguments, see Remarks/Amendments, filed May 27, 2009, with respect to the rejection(s) of claim(s) 1-6 under 35 USC 102(b) as being anticipated by Gonzalo et al have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Arai et al (JJAP, 2005).

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.
- 5. Claims 1-4, 7 and 10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Arai et al (JJAP, 2005).
- 6. Arai et al sets forth a method a fabrication of liquid crystal polymer films for passivation effects in organic devices. Said fabrication comprises applying a LC polymer onto the surface of a substrate, such as Si or sapphire, via pulsed laser deposition (PLD). The LC polymer

Application/Control Number: 10/585,204 Page 3

Art Unit: 1796

described is a polyester having the chemical

structure<sup>1</sup>: . The polymer species is

taught to be ablated using a pulsed N2 laser having a wavelength of 337 nm and a pulsed KrF excimer laser with a wavelength of 248 nm at 50-200 mJ/cm2. The wavelength and energies of the KrF laser is deemed to anticipate claims 12-13. The LC polymers described have melting points of 325 0C, dielectric constant is 2.85 and the rate of water absorption is 0.04%. Therefore the properties as found in claim 1 are deemed to be found in the reference. The LC is deposited with a thickness of approximately 100 nm therefore claims 10-11 are taught in the reference. It is deemed that the passivation effect reads on the protective film. The structure of the device found in the experimental section is Al/LCP film/Al/sapphire substrate, which is a laminate and thus reads on claim 3, wherin the LCP film is on surface of an aluminum substrate.

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 5-6 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arai et al (JJAP, 2005—as cited above).

<sup>1</sup> All data taken from Experimental section in the reference

9. Arai et al does not expressly set forth the electronic devices as found in claims 5-9, however it is clear from the teaching of the reference that the film obtained in the PLD process are for use and/or envisioned for used in organic semiconductor devices (electronic devices), such as organic light emitting diodes and organic field-effect transistors—see 2nd full paragraph in the introduction section and the conclusion section. Therefore the examiner deems it would have been within the skill level of an ordinarily skilled artisan, at the time of the invention, to use the LPD polymer films in organic electronic devices, such as OLED, OFET, and other semiconductor devices from the teaching of the reference.

#### **Conclusion**

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L. McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sanza L McClendon/ Primary Examiner, Art Unit 1796

SMc